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PROGRESS IN POLISH METALLURGY

IMPROVE ZYGMUNT METALLURGICAL PLANT -- Katowice, Wiadomosci Hutnicze, Vol 7, No 2, Feb 51

Two sections of the foundry at the Huta Zygmunt (Zygmunt Metallurgical Plant) are being mechanized by rationalizers of that plant. In the core section, the transportation of sand and castings will be mechanized; in the molding section, the transportation of two-part molding boxes will be mechanized. With this mechanization, production of cores and molds will increase by 30 percent. Strict quality control will be possible, and the number of rejects will be reduced by at least 50 percent compared to the present number.

INCREASE HEAT ENDURANCE OF OPEN-HEARTH FURNACES -- Katowice, Wiadomosci Hutnicze, Vol 7, No 2, Feb 51

The burner end in one of the open-hearth furnaces at the Huta Bankowa (Bankowa Metallurgical Plant) was lined with brick of chromium and magnesite. In July 1950, the first test on this furnace gave unsatisfactory results. Holes were found where the bricks of chromium and magnesite made contact with the Dinas brick. Gas escaping through these holes burned out the furnace roof. Cieslik, one of the bricklayers at the plant, suggested that bricks of chromium and magnesite be laid in such a way that flames would not be directed at points of contact with Dinas bricks. The suggestion was carried out with success and this system has been used ever since.

During 1950, the endurance of roofs in open-hearth furnaces gradually increased from an average of 320 heats to nearly 500 heats.

REDUCE COAL CONSUMPTION FOR STEEL -- Katowice, Wiadomosci Hutnicze, Vol 7, No 2, Feb 51

In 1950, the steelworks at the Huta Baildon (Baildon Metallurgical Plant) reduced the consumption of coal for each ton of its production by 25 kilograms, compared with 1949. Since generators at the forge are now operated at a lower pressure, coal mixed with coal dust can be used. Previously, coal dust had not been properly utilized.

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In 1950, the consumption of coal per ton of production at the Huta Bankowa was 18 kilograms less than in 1949 and 35 kilograms less than in 1948.

Boilers at the Huta Florian (Florian Metallurgical Plant) are heated with duff only, which means a great saving of coal.

NEW CZESTOCHOWA STEEL MILL TO START PRODUCTION SOON -- Frankfurt/Main, Nowe Wiadomosci Polskie, 3 Jun 51

Work on the construction of the new steel mill of the Czestochowa Metallurgical Plant is making very good progress. This is one of the largest construction projects in the Six-Year Plan.

While in mid-1950, only the steel supports were up, today gigantic workshops are in the finishing stage. Control equipment is being installed in the open-hearth furnaces, which, in a few weeks, will begin to produce steel for the country.

The operations at the new steel mill will be completely automatic. From the preparation of the scrap metal to charging the furnaces and pouring the steel into ingot moulds, all conveying and charging is done mechanically.

The workers of Mostostal are setting up the iron masts to hold the beams for overhead traveling cranes. The bridge of the crane will be completed before the time fixed in the production load chart. The traveling crane will be assembled in 4 weeks, half the usual time required.

The large rolling mill has glass walls. The workshop is throbbing with the noise of welding as the first machines are assembled. The rolling mill will be activated in 1951.

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